2048 game in Java

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Chapter 3

Class Documentation

3.1 main.java.Board Class Reference

Public Member Functions

- · Board (int size)
- int getSize ()
- void setSize (int size)
- void setMode (boolean mode)
- List< List< Tile >> getTiles ()
- void setTiles (List< List< Tile > > tiles)
- Tile getTileAt (int row, int col)
- void setTileAt (int row, int col, Tile t)
- void remTileAt (int row, int col)
- void moveUp ()
- void moveDown ()
- void moveLeft ()
- void moveRight ()
- void isGameOver ()
- String getWonOrLost ()
- void setWonOrLost (String wonOrLost)

Static Public Member Functions

- static void setDificultad (int dificultad)
- static void **setModo** (int modo)
- static int getScore ()

Protected Member Functions

• void show ()

3.1.1 Detailed Description

Board

Author

petrnemecek

3.1.2 Constructor & Destructor Documentation

3.1.2.1 Board()

```
main.java.Board.Board ( \label{eq:board} \text{int } size \text{ ) } \text{ [inline]}
```

Constructor

Parameters

size of the grid

3.1.3 Member Function Documentation

3.1.3.1 getScore()

```
static int main.java.Board.getScore ( ) [inline], [static]
```

Returns game score

Returns

game score

3.1.3.2 getSize()

```
int main.java.Board.getSize ( ) [inline]
```

Returns size of the grid

Returns

size of the grid

3.1.3.3 getTileAt()

Returns a **Tile** (p. **??**) at given position

Parameters

row	
col	

Returns

```
Tile (p.??) at given position
```

3.1.3.4 getTiles()

```
\label{eq:list_list} \mbox{List} < \mbox{ } \mbox{\bf Tile} \mbox{ } > \mbox{ } \mbox{main.java.Board.getTiles ( ) } \mbox{ } \mbox{[inline]}
```

Returns a list of lists of Tile (p.??)

Returns

```
a list of lists of Tile (p.??)
```

3.1.3.5 getWonOrLost()

```
String main.java.Board.getWonOrLost ( ) [inline]
```

Returns game status

Returns

game status

3.1.3.6 isGameOver()

```
void main.java.Board.isGameOver ( ) [inline]
```

Checks if the game is over

3.1.3.7 moveDown()

```
void main.java.Board.moveDown ( ) [inline]
```

Moves tiles down

3.1.3.8 moveLeft()

```
void main.java.Board.moveLeft ( ) [inline]
```

Moves tiles left

3.1.3.9 moveRight()

```
void main.java.Board.moveRight ( ) [inline]
```

Moves tiles right

3.1.3.10 moveUp()

```
void main.java.Board.moveUp ( ) [inline]
```

Moves tiles up

3.1.3.11 remTileAt()

Remove a **Tile** (p. **??**) at given position

Parameters

row	
col	

3.1.3.12 setDificultad()

Setters

3.1.3.13 setMode()

```
void main.java.Board.setMode (
                boolean mode ) [inline]
```

Set game mode

Returns

game mode

3.1.3.14 setSize()

```
void main.java.Board.setSize ( \mbox{int $size$ ) [inline]} \label{eq:size}
```

Set size of the grid

Parameters

size	of the grid
------	-------------

3.1.3.15 setTileAt()

```
void main.java.Board.setTileAt (
    int row,
    int col,
    Tile t ) [inline]
```

Set a Tile (p. ??) at given position

Parameters

row		
col		
t	Tile	(p. ??) to be set

3.1.3.16 setTiles()

```
void main.java.Board.setTiles ( \label{eq:condition} {\tt List<~List<~Tile~>~tiles~)} \quad [inline]
```

Set a list of lists of **Tile** (p. **??**)

Parameters

```
tiles a list of lists of Tile (p.??)
```

3.1.3.17 setWonOrLost()

Set game status

Parameters

```
wonOrLost game status
```

3.1.3.18 show()

```
void main.java.Board.show ( ) [inline], [protected]
```

Shows the board

The documentation for this class was generated from the following file:

• src/main/java/Board.java

3.2 main.java.ColorScheme Class Reference

Public Member Functions

- · ColorScheme ()
- Color getTileBackground (int value)
- Color getTileColor (int value)
- void updateColors ()

Static Public Attributes

- static final Color WINBG = new Color(0XFAF8EF)
- static final Color **GRIDBG** = new Color(0XBBADA0)
- static final Color **BRIGHT** = new Color(0X776E65)
- static final Color **LIGHT** = new Color(0XF9F6F2)
- static final Color **DARK_WINBG** = new Color(0x3B3939)
- static final Color DARK_GRIDBG = new Color(0x595353)
- static final Color **DARK_BRIGHT** = new Color(0x526679)
- static final Color **DARK_LIGHT** = new Color(0x706F6F)

3.2.1 Detailed Description

Class ColorScheme that handles the colors of the game

3.2.2 Constructor & Destructor Documentation

3.2.2.1 ColorScheme()

```
main.java.ColorScheme.ColorScheme ( ) [inline]
```

Set the colors of the game

3.2.3 Member Function Documentation

3.2.3.1 getTileBackground()

Returns the background color of the tile

Parameters

value	value of the tile
-------	-------------------

Returns

background color of the tile

3.2.3.2 getTileColor()

Returns the color of the tile

Parameters

value	value of the tile
-------	-------------------

Returns

color of the tile

3.2.3.3 updateColors()

```
void main.java.ColorScheme.updateColors ( ) [inline]
```

Returns the color of the text

Parameters

```
value value of the tile
```

Returns

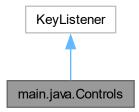
color of the text

The documentation for this class was generated from the following file:

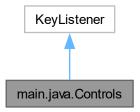
• src/main/java/ColorScheme.java

3.3 main.java.Controls Class Reference

Inheritance diagram for main.java.Controls:



Collaboration diagram for main.java.Controls:



Public Member Functions

- void **keyTyped** (KeyEvent e)
- void keyReleased (KeyEvent e)
- void **keyPressed** (KeyEvent e)
- void bind ()
- void unbind ()

3.3.1 Detailed Description

Class that handles the keyboard input

3.3.2 Member Function Documentation

3.3.2.1 bind()

void main.java.Controls.bind () [inline]

Binds the keyboard input to the game

3.3.2.2 keyTyped()

Empty constructor

3.3.2.3 unbind()

```
void main.java.Controls.unbind ( ) [inline]
```

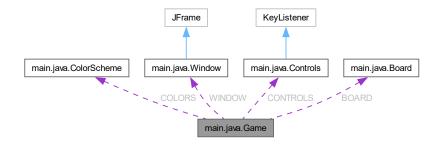
Unbinds the keyboard input from the game

The documentation for this class was generated from the following file:

• src/main/java/Controls.java

3.4 main.java.Game Class Reference

Collaboration diagram for main.java.Game:



Static Public Attributes

- static boolean isDarkMode
- static ColorScheme COLORS = new ColorScheme()
- static final Window WINDOW = new Window("2048")
- static final Controls CONTROLS = new Controls()
- static final **Board BOARD** = new **Board**(4)

3.4.1 Detailed Description

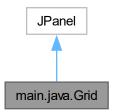
Class that handles the game

The documentation for this class was generated from the following file:

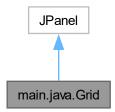
src/main/java/Game.java

3.5 main.java.Grid Class Reference

Inheritance diagram for main.java.Grid:



Collaboration diagram for main.java.Grid:



Public Member Functions

- Grid ()
- void paintComponent (Graphics g2)

3.5.1 Detailed Description

Class Grid that handles the grid of the game

3.5.2 Constructor & Destructor Documentation

3.5.2.1 Grid()

main.java.Grid.Grid () [inline]

Constructor of the class Grid

3.5.3 Member Function Documentation

3.5.3.1 paintComponent()

Paints the grid

Parameters



The documentation for this class was generated from the following file:

· src/main/java/Grid.java

3.6 main.java.Leaderboard Class Reference

Static Public Member Functions

- static List< Player > loadLeaderboard ()
- static void saveLeaderboard (List< Player > players)
- static void addPlayer (Player player)
- static void sortPlayers ()
- static void printLeaderboard (List< Player > players)

3.6.1 Detailed Description

Leaderboard

3.6.2 Member Function Documentation

3.6.2.1 addPlayer()

Add a player to the leaderboard

Parameters

player Player to add

3.6.2.2 loadLeaderboard()

```
static List Player > main.java.Leaderboard.loadLeaderboard ( ) [inline], [static]
```

Load the leaderboard from the file

Returns

List of players

3.6.2.3 printLeaderboard()

```
static void main.java.Leaderboard.printLeaderboard ( {\tt List} < \ {\tt Player} > players \ ) \quad [{\tt inline}] \, , \; [{\tt static}]
```

Print the leaderboard

Parameters

```
players List of players
```

3.6.2.4 saveLeaderboard()

Save the leaderboard to the file

Parameters

```
players List of players
```

3.6.2.5 sortPlayers()

```
static void main.java.Leaderboard.sortPlayers ( ) [inline], [static]
```

Sort the players by score

The documentation for this class was generated from the following file:

• src/main/java/Leaderboard.java

3.7 main.java.Main Class Reference

Static Public Member Functions

• static void main (String[] args)

3.7.1 Detailed Description

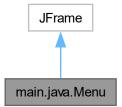
Initializes the game

The documentation for this class was generated from the following file:

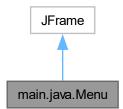
• src/main/java/Main.java

3.8 main.java.Menu Class Reference

Inheritance diagram for main.java.Menu:



Collaboration diagram for main.java.Menu:



Public Member Functions

· Menu ()

3.8.1 Detailed Description

Class Menu that handles the menu of the game

3.8.2 Constructor & Destructor Documentation

3.8.2.1 Menu()

```
main.java.Menu.Menu ( ) [inline]
```

Constructor of the class Menu

The documentation for this class was generated from the following file:

• src/main/java/Menu.java

3.9 main.java.Player Class Reference

Public Member Functions

- Player (String name, int score)
- String getName ()
- int getScore ()

3.9.1 Detailed Description

Class Player that handles the player

3.9.2 Constructor & Destructor Documentation

3.9.2.1 Player()

Constructor of the class Player

Parameters

name	Name of the player
score	Score of the player

3.9.3 Member Function Documentation

3.9.3.1 getName()

```
String main.java.Player.getName ( ) [inline]
```

Get the name of the player

Returns

Name of the player

3.9.3.2 getScore()

```
int main.java.Player.getScore ( ) [inline]
```

Get the score of the player

Returns

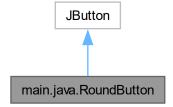
Score of the player

The documentation for this class was generated from the following file:

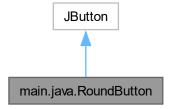
• src/main/java/Player.java

3.10 main.java.RoundButton Class Reference

Inheritance diagram for main.java.RoundButton:



Collaboration diagram for main.java.RoundButton:



Public Member Functions

• RoundButton (String text, Color backgroundColor, Color foregroundColor)

Protected Member Functions

- void paintComponent (Graphics g)
- void paintBorder (Graphics g)

3.10.1 Detailed Description

Class that handles the round buttons

3.10.2 Constructor & Destructor Documentation

3.10.2.1 RoundButton()

Constructor of the class RoundButton

Parameters

text	Text of the button
backgroundColor	Background color of the button
foregroundColor	Foreground color of the button

3.10.3 Member Function Documentation

3.10.3.1 paintBorder()

Paints the border of the button

3.10.3.2 paintComponent()

Paints the button

The documentation for this class was generated from the following file:

• src/main/java/RoundButton.java

3.11 main.java.Tile Class Reference

Public Member Functions

- Tile (int value)
- Tile (int value, int row, int col)
- Tile ()
- int getValue ()
- void setValue (int value)
- void setPosition (int row, int col)
- int merging ()
- boolean hasMoved (int row, int col)
- boolean isEmpty ()
- String toString ()

3.11.1 Detailed Description

Tile

3.11.2 Constructor & Destructor Documentation

3.11.2.1 Tile() [1/3]

Constructor of the class Tile

3.11.2.2 Tile() [2/3]

```
main.java.Tile.Tile (
          int value,
          int row,
          int col ) [inline]
```

Constructor of the class Tile

3.11.2.3 Tile() [3/3]

```
main.java.Tile.Tile ( ) [inline]
```

Constructor of the class Tile

3.11.3 Member Function Documentation

3.11.3.1 getValue()

```
int main.java.Tile.getValue ( ) [inline]
```

Get the row of the tile

Returns

Row of the tile

3.11.3.2 hasMoved()

```
boolean main.java.Tile.hasMoved ( \label{eq:condition} \text{int } row, \\ \text{int } col \text{ ) } \text{ [inline]}
```

checks whether numbered (nonzero) tile changes its position

Parameters

row	
col	

Returns

true if tile changed its position, false if not

3.11.3.3 isEmpty()

```
boolean main.java.Tile.isEmpty ( ) [inline]
```

checks whether tile is empty

Returns

true if tile is empty, false if not

3.11.3.4 merging()

```
int main.java.Tile.merging ( ) [inline]
```

Get the row of the tile

Returns

Row of the tile

3.11.3.5 setPosition()

Get the row of the tile

Returns

Row of the tile

3.11.3.6 setValue()

Get the row of the tile

Returns

Row of the tile

3.11.3.7 toString()

```
String main.java.Tile.toString ( ) [inline]
```

Get the row of the tile

Returns

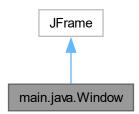
Row of the tile

The documentation for this class was generated from the following file:

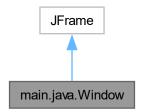
• src/main/java/Tile.java

3.12 main.java.Window Class Reference

Inheritance diagram for main.java.Window:



Collaboration diagram for main.java.Window:



Public Member Functions

- Window (String title)
- int getWidth ()
- int getHeight ()

3.12.1 Detailed Description

Window

Author

petrnemecek

3.12.2 Constructor & Destructor Documentation

3.12.2.1 Window()

```
main.java.Window.Window ( String \ title \ ) \quad [inline]
```

Constructor of the class Window

Parameters

title Title of the window

3.12.3 Member Function Documentation

3.12.3.1 getHeight()

```
int main.java.Window.getHeight ( ) [inline]
```

Get the height of the window

Returns

Height of the window

3.12.3.2 getWidth()

```
int main.java.Window.getWidth ( ) [inline]
```

Get the width of the window

Returns

Width of the window

The documentation for this class was generated from the following file:

• src/main/java/Window.java

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